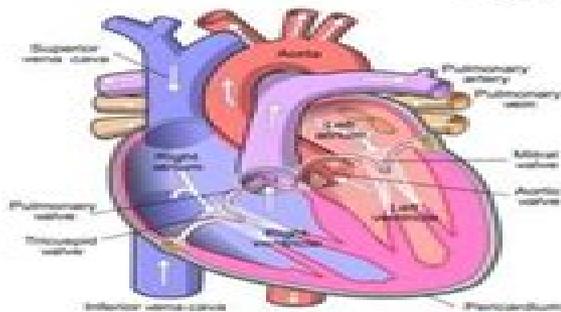


Cardiovascular System



3 Layers of the Heart:

1. **Epicardium** - the outermost layer of the heart.
2. **Myocardium** - the middle layer of the heart, the contracting muscle.
3. **Endocardium** - innermost layer of the heart, lines the inner chambers and the valves.

The Heart:

It is a cone-shaped organ in the mediastinal space, which pumps oxygenated blood into the arterial system to supply capillaries and tissue. It pumps poor oxygenated blood from the venous system through the lungs to be reoxygenated. The heart is encased in a pericardial sac, which protects it, lubes and holds about 10-20 ml of pericardial fluid. The sac has 2 layers:

1. **Parietal pericardium** - outer membrane
 2. **Visceral pericardium** - inner membrane
- The function of circulation is to deliver nutrients, oxygen, hormones



Chambers of the Heart:

1. **Right Atrium** - carries deoxygenated blood from the body via superior and inferior vena cava.
2. **Left Atrium** - carries oxygenated blood from the pulmonary veins.
3. **Right Ventricle** - carries blood from the right atrium and pumps the lungs through the pulmonary artery.
4. **Left Ventricle** - carries blood from the left atrium and pumps it into the systemic circuit from the aorta.

Valves of the Heart:

1. **Tricuspid Valve** - located on the right side of the heart.
2. **Mitral /Bicuspid Valve** - located on the left side of the heart.
3. **Pulmonic Valve** - between the right ventricle and pulmonary artery.
4. **Aortic Valve** - between the ventricle and the aorta.

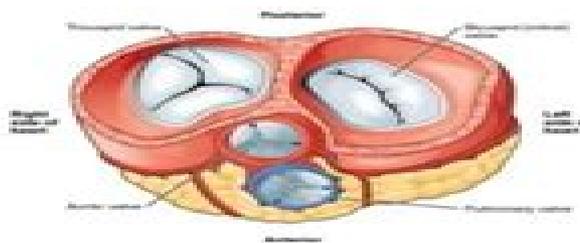
Blood Flow through the Heart:

1. Blood enters the heart from the body through the superior and inferior vena cava and enters the right atrium of the heart.
2. Blood then moves through the tricuspid valve into the right ventricle chamber of the heart.
3. Then the blood moves through the pulmonary valve into the pulmonary artery.
4. The blood re-enters the heart from the lungs through the pulmonary veins, and travel into the left atrium.
5. The blood then passes through the mitral valve and into the left ventricle chamber of the heart.
6. The blood then moves through the aortic valve and into the aorta.

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Study Guide

Electrical conduction of the heart:

SA Node: 1st pacemaker of the heart and initiates contraction at 60-100 bpm.
AV Node: 2nd pacemaker of the heart that receives impulses from the SA node initiates and sustains impulses at 40-60 bpm.
Bundle of His: It is the continuation of the AV node and branches into the bundle of his branches which goes into the purkinje fibers.
Purkinje fibers: network of conducting stands beneath the ventricular endocardium. They can act as a pacemaker when the SA and AV fail as pacemakers. It can sustain 20-40 bpm.



Human Physiology Study Guide

RJ Shavelson



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1. Understanding the eBook Human Physiology Study Guide
 - The Rise of Digital Reading Human Physiology Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Human Physiology Study Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Human Physiology Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Human Physiology Study Guide
 - Personalized Recommendations
 - Human Physiology Study Guide User Reviews and Ratings
 - Human Physiology Study Guide and Bestseller Lists
5. Accessing Human Physiology Study Guide Free and Paid eBooks
 - Human Physiology Study Guide Public Domain eBooks
 - Human Physiology Study Guide eBook Subscription Services
 - Human Physiology Study Guide Budget-Friendly Options
6. Navigating Human Physiology Study Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Human Physiology Study Guide Compatibility with Devices
 - Human Physiology Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Human Physiology Study Guide
 - Highlighting and Note-Taking Human Physiology Study Guide
 - Interactive Elements Human Physiology Study Guide
8. Staying Engaged with Human Physiology Study Guide

- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Human Physiology Study Guide
9. Balancing eBooks and Physical Books Human Physiology Study Guide
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Human Physiology Study Guide
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Human Physiology Study Guide
- Setting Reading Goals Human Physiology Study Guide
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Human Physiology Study Guide
- Fact-Checking eBook Content of Human Physiology Study Guide
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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